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CH Wu, MC Yuang, JD Irwin - Industrial Electronics, IEEE Transactions on, 1998 - ieeexplore.ieee.org

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J Shelton - ACOUSTICS BULLETIN, 1996 - altracustica.org

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 ... are adapted from desktop **software** design for two ... OS, Motorola Wisdom, Windows CE/Pocket PC, and Symbian ... KEYWORDS Handheld, usability, mobile, wireless, **PDA**, WAP ...

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JC Reilly, M Wallace, MM Campbell - American Journal of Health-System Pharmacy, 2001 - pt.wkhealth.com
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AE Carroll, S Saluja, P Tarczy-Hornoch - Proc AMIA Symp, 2001 - faculty.washington.edu
... CONCLUSIONS This **PDA** based **electronic** charting and workflow ... We used **software** and
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- 1 Practitioners report: The parks PDA: a handheld device for theme park guests in squeak**

 Yoshiki Ohshima, John Maloney, Andy Ogden

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**

Publisher: ACM Press

Full text available:  pdf(488.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Parks PDA is a lightweight, handheld device for theme park guests that functions as a combination guidebook, map, and digital camera. Together with a small team of artists and designers, we created a prototype Parks PDA and content for a three hour guest experience, including a camera interface, a hyper-linked guide book, three games, an animal spotters guide, a cross-referenced map, animated movies with lip-synched sound, a ride reservation system, and more. Over 800 visitors to Disney's An ...

Keywords: PDA, development environment, end-user software, handheld device, multimedia data management, rapid software development

- 2 HMD versus PDA: a comparative study of the user out-of-box experience**

T. Serif, G. Ghinea

July 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 4

Publisher: Springer-Verlag

Full text available:  pdf(428.51 KB) Additional Information: [full citation](#), [abstract](#)

The out-of-box experience (OOBE) has been identified as a significant factor contributing to user perception and acceptance of products and technologies. Whilst there has been considerable emphasis placed on formalising methodological procedures for evaluating the OOBE and on the creation of positive user experiences through appropriate interfaces and applications, relatively little work has been undertaken examining how the OOBE is impacted when the experience itself covers a range of (possibly ...

Keywords: Gender, Head mounted display, Interconnection, OOBE, Personal digital assistant, User type

- 3 Two-handed input using a PDA and a mouse**

- ◆ Brad A. Myers, Kin Pou Lie, Bo-Chieh Yang
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '00**

Publisher: ACM Press

Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We performed several experiments using a Personal Digital Assistant (PDA) as an input device in the non-dominant hand along with a mouse in the dominant hand. A PDA is a small hand-held palm-size computer like a 3Com Palm Pilot or a Windows CE device. These are becoming widely available and are easily connected to a PC. Results of our experiments indicate that people can accurately and quickly select among a small numbers of buttons on the PDA using the left hand without looking, and that, as ...

Keywords: Palm Pilot, Windows CE, hand-held computers, pebbles, personal digital assistant (PDAs), smart environments, two-handed input, ubiquitous computing

4 Linking and messaging from real paper in the Paper PDA 

- ◆ Jeremy M. Heiner, Scott E. Hudson, Kenichiro Tanaka
November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology UIST '99**

Publisher: ACM Press

Full text available:  pdf(344.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It is well known that paper is a very fluid, natural, and easy to use medium for manipulating some kinds of information. It is familiar, portable, flexible, inexpensive, and offers good readability properties. Paper also has well known limitations when compared with electronic media. Work in hybrid paper electronic interfaces seeks to bring electronic capabilities to real paper in order to obtain the best properties of each. This paper describes a hybrid paper electronic system — the ...

Keywords: augmented reality, hybrid paper electronic interfaces, hyperlinking, interaction on paper, interaction techniques

5 Papers from MC²R open call: Access and mobility of wireless PDA users 

- ◆ Marvin McNett, Geoffrey M. Voelker
April 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9
Issue 2

Publisher: ACM Press

Full text available:  pdf(595.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we analyze the mobility patterns of users of wireless hand-held PDAs in a campus wireless network using an eleven week trace of wireless network activity. Our study has two goals. First, we characterize the high-level mobility and access patterns of hand-held PDA users and compare these characteristics to previous workload mobility studies focused on laptop users. Second, we develop two wireless network topology models for use in wireless mobility studies: an *evolutionary topol* ...

6 Technical Session: Little guys make a big splash: PDA projects at Virginia 

- ◆ Commonwealth University

Kay Sommers, Jane Hesler, Jim Bostick

October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**

Publisher: ACM Press

Full text available:  pdf(255.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

PDAs are no longer just cute little gizmos to keep track of appointments and to-do lists. As these small computers become more powerful with every generation, the possibility of their being really useful in a meaningful way is also increasing. The medical campus of Virginia Commonwealth University has had a keen interest in handheld technology for a number of years, and there have been numerous projects developed that involve PDAs. The number of commercial and shareware health related applications ...

Keywords: PDA, handhelds, palm devices, pocket PC

7 Mobility: Visualization across the pond: how a wireless PDA can collaborate with 

 million-polygon datasets via 9,000km of cable

Ian J. Grimstead, Nick J. Avis, David W. Walker

March 2005 **Proceedings of the tenth international conference on 3D Web technology Web3D '05**

Publisher: ACM Press

Full text available:  pdf(682.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an initial report on using our distributed, collaborative grid enabled visualization environment to link SuperComputing 2004 (Pittsburgh, PA, USA) with the Cardiff School of Computer Science (Cardiff, Wales, UK). A PDA was used to visualize large, shared datasets (in the range of 0.5--4.5 million polygons) stored in Cardiff, interacting with a laptop (rendering the data locally). The system used was the Resource-Aware Visualization Environment (RAVE), deployed as Web Services running ...

Keywords: grid/web, heterogeneous systems, services, visualization

8 Participatory design: Participatory design with proxies: developing a desktop-PDA 

 system to support people with aphasia

Jordan L. Boyd-Graber, Sonya S. Nikolova, Karyn A. Moffatt, Kenrick C. Kin, Joshua Y. Lee, Lester W. Mackey, Marilyn M. Tremaine, Maria M. Klawe

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available:  pdf(625.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe the design and preliminary evaluation of a hybrid desktop-handheld system developed to support individuals with aphasia, a disorder which impairs the ability to speak, read, write, or understand language. The system allows its users to develop speech communication through images and sound on a desktop computer and download this speech to a mobile device that can then support communication outside the home. Using a desktop computer for input addresses some of this popul ...

Keywords: aphasia, assistive technology, multi-modal interfaces, participatory design

9 Embedded security and reliability: Methodology for attack on a Java-based PDA 

 C. H. Gebotys, B. A. White

October 2006 **Proceedings of the 4th international conference on Hardware/software codesign and system synthesis CODES+ISSS '06**

Publisher: ACM Press

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Although mobile Java code is frequently executed on many wireless devices, the

susceptibility to electromagnetic (EM) attacks is largely unknown. If analysis of EM waves emanating from the wireless device during a cryptographic computation does leak sufficient information, it may be possible for an attacker to reconstruct the secret key. Possession of the secret cryptographic key would render all future wireless communications insecure and cause further potential problems such as identity theft. ...

Keywords: embedded system

10 System section: Computer vision techniques for PDA accessibility of in-house video surveillance



Rita Cucchiara, Costantino Grana, Andrea Prati, Roberto Vezzani

November 2003 **First ACM SIGMM international workshop on Video surveillance IWVS '03**

Publisher: ACM Press

Full text available: pdf(1.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we propose an approach to indoor environment surveillance and, in particular, to people behaviour control in home automation context. The reference application is a silent and automatic control of the behaviour of people living alone in the house and specially conceived for people with limited autonomy (e.g., elders or disabled people). The aim is to detect dangerous events (such as a person falling down) and to react to these events by establishing a remote connection with low-per ...

Keywords: PDA, indoor surveillance, people posture classifier, transcoding

11 7-1 Human-computer interaction & VRC devices: Augmented reality with large 3D models on a PDA: implementation, performance and use experiences



Wouter Pasman, Charles Woodward, Mika Hakkarainen, Petri Honkamaa, Jouko Hyvakkä June 2004 **Proceedings of the 2004 ACM SIGGRAPH international conference on Virtual Reality continuum and its applications in industry VRCAI '04**

Publisher: ACM Press

Full text available: pdf(414.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have implemented a client/server system for running augmented reality applications on a PDA device. The system incorporates various data compression methods to make it run as fast as possible on a wide range of communication networks, from mobile phone links to WLAN. We provide a detailed description of various implementation issues, data compression optimisations, and performance analysis of the system. Usability of the system is evaluated in a demanding architectural application, with a lar ...

Keywords: PDA, augmented reality, mobile computing

12 Documentation analysis: Searching documents on the intranet using PDA



Carlos J. Costa, Manuela Aparicio

October 2006 **Proceedings of the 24th annual conference on Design of communication SIGDOC '06**

Publisher: ACM Press

Full text available: pdf(253.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem of searching the web by using small devices such as PDA is a subject of research pursued by academics but is also an important concern from industry. Here we suggest that document genre may contribute to the reduction of processing and memory burden when searching information on an Intranet. Document genre may also contribute

to ease the access to information. It is in this context that we analyzed in what extent document genres are employed by users to describe digital resources, in ...

Keywords: PDA, information and data Search, small display devices

13 Adapting a large scale networked virtual environment for display on a PDA

Tom Jehaes, Peter Quax, Wim Lamotte
June 2005 **Proceedings of the 2005 ACM SIGCHI International Conference on Advances in computer entertainment technology ACE '05**

Publisher: ACM Press

Full text available: [pdf\(210.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In order to allow users to access a large-scale online virtual environment at any time or place, some form of mobile access is needed using for instance a PDA or SmartPhone. In this paper, we describe how the display part of our in-house developed large scale online virtual environment was adapted for mobile devices. We discuss the main issues encountered and describe our approach for 3D rendering of a large virtual environment on a PDA. More specifically, we use a hybrid geometry/image-based re ...

14 Posters: A light weight PDA-friendly collection fusion technique

Jeffery Antoniuk, Mario A. Nascimento
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval SIGIR '03**

Publisher: ACM Press

Full text available: [pdf\(63.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This short paper presents a light weight technique to merge results lists obtained from querying different databases. The motivation for such a technique is a general purpose search engine for Palm-OS based PDAs.

Keywords: PDA, Palm-OS based search engine, collection fusion

15 Papers: Novel user input: Guided gesture support in the paper PDA

Daniel Avrahami, Scott E. Hudson, Thomas P. Moran, Brian D. Williams
November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**

Publisher: ACM Press

Full text available: [pdf\(212.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ordinary paper offers properties of readability, fluidity, flexibility, cost, and portability that current electronic devices are often hard pressed to match. In fact, a lofty goal for many interactive systems is to be "as easy to use as pencil and paper". However, the static nature of paper does not support a number of capabilities, such as search and hyperlinking that an electronic device can provide. The *Paper PDA* project explores ways in which hybrid paper electronic interfaces can br ...

Keywords: Hybrid paper electronic interfaces, augmented reality, interaction on paper, interaction techniques, recognition

16 Patterns de interface em PDA: aplicação em coleta de dados de usabilidade

Plinio T. Aquino, Lucia V. L. Filgueiras, Elen C. de Oliveira, Thaysa R. Bello
October 2005 **Proceedings of the 2005 Latin American conference on Human-computer interaction CLIHC '05**

Publisher: ACM PressFull text available:  pdf(183.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This poster describes interface patterns for PDA defined from usability studies at application developed from Usability Engineering Laboratory. The applications usability studies generated 15 interface patterns for PDA, with propose to create reliability during usability tests in Laboratory. When using defined patterns, it was gotten efficiency during the execution of the application.

Keywords: PDA, interface patterns, usability laboratory**17 Special feature on MOBICOM 2003 posters: Access and mobility of wireless PDA** 

Marvin McNett, Geoffrey M. Voelker

October 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 4**Publisher:** ACM PressFull text available:  pdf(310.04 KB) Additional Information: [full citation](#), [references](#), [citations](#)**18 Interaction techniques: Comparing two one-handed access methods on a PDA** 

Lei Dong, Carolyn Watters, Jack Duffy

September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05****Publisher:** ACM PressFull text available:  pdf(280.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Users of mobile devices often need to use those devices in contexts which leave only one hand available for manipulating the device, such as holding another device or manual, walking or operating some machinery. In this paper we discuss the results of a comparison of the effectiveness, efficiency and preference users have for map navigation tasks on a PDA, where they are restricted to one handed use. One method uses a tilt sensor and touch screen and the other uses multifunction buttons and the t ...

Keywords: PDA, handheld device, input method, map navigation, one-handed, tilt**19 Emulators, ethics, and PDA programming** 

Tod Amon, Dann Ormond

October 2004 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 1**Publisher:** Consortium for Computing Sciences in CollegesFull text available:  pdf(186.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents an overview of a project based course in which an arcade game emulator for a PDA was developed. Students participated in several discussions regarding the ethical issues involved in emulator development. Feedback obtained from the "Student Assessment of Learning Gains" assessment instrument is presented along with conclusions.

20 Software design, languages and systems: Application development for desktop and **PDA-style devices: issues and lessons learned**

Theodore (Ted) Roberts, Hisham M. Haddad

March 2005 **Proceedings of the 43rd annual Southeast regional conference - Volume 2 ACM-SE 43****Publisher:** ACM Press

Full text available:  [pdf\(777.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software development for mobile devices is relatively new and has its own challenges, especially when developing a single application that will run on either a PDA or a notebook PC. This work describes the development of a sales system for use by a salesperson in the field. Windows-based devices and Microsoft development tools were used to implement the application for the .NET Framework for the notebook PC and the .NET Compact Framework for the PDA. (One might run into a totally different set of ...)

Keywords: development for PDA devices, interoperability, window styles

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23	BRS	L24	43	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	(personal adj data adj assistant) and (circuit adj diagram) and maintenance	2007/08/06 14:41
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25	BRS	L26	5	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	(personal adj data adj assistant) and (mobile adj software) and (electronic same software)	2007/08/06 15:09
26	BRS	L27	1	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	"20070100596"	2007/08/06 15:09

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